

## CONFIGURATIONS FOR WAVEGUIDE CROSSINGS

### ABSTRACT

Configurations for optical waveguide crossings are described. In one exemplary implementation, an optical chip includes waveguides integrated on the optical chip. The waveguides have varied widths dependent upon how many waveguides each of the waveguides cross with respect to each other.

In another exemplary implementation, voids are inserted between waveguides in the vicinity of waveguide crossings of an optical device. The voids are configured to reduce optical losses in waveguides that have more waveguide crossing while simultaneously increasing optical losses in waveguides that have fewer waveguide crossings. Accordingly, the overall optical losses between the waveguides are generally equalized with respect to each other.